**Session 6- Transformations and Tessellations**

|  |  |  |  |
| --- | --- | --- | --- |
| Time | Agenda | Vocab | Resources |
| 4:00 | • Welcome    • Go over homework & questions  There are three topics to cover in Session 6. Below is a list of activities that will cover the topics. Pick and choose which work for you in the time frame given. |  |  |
|  | **Transformations- Rotations, Translations & Reflections**  **Several activities are listed choose the activities you prefer.**  **Activites**  **Beckmann Activity pg 329-330 Class Activity A Exploring Rotations.**  **Beckmann Activity pg 330 Class Activity B Exploring Reflections**  **Beckmann Activity pg 334 & 335 Class Activity 14F “Reflections Rotations and Translations in a Coordinate Plane”**  **If you are familiar and have access to Geometer’s Sketcthpad, there are multiple activities in Beckmann Activity book that would be great as well.**  **Class Activities 14 C, 14D & 14E (pp 331-333)**  [**www.geogebra.org**](http://www.geogebra.org) **has a free applet similar to the Geometer’s Sketchpad.**  **Other optional activities**   * **Flip Me, Slide Me, Glide Me!** * **Flips and Turns** * **Coordinate Slides & Coordinate Reflections VandeWalle pg 426-427** |  |  |
|  | **Transformations- Deconstructing & Recombining Figures**  There are multiple activities listed. Keep in mind that some participants may be more comfortable using hands-on manipulatives vs. the digital tangrams   * **Separating Shapes** * **Tangrams and Visualization** * **Tangram Challenges** [**http://illuminations.nctm.org/LessonDetail.aspx?ID=L403**](http://illuminations.nctm.org/LessonDetail.aspx?ID=L403) * **Grandfather Tang’s Story, Ann Tompert** * **Tangram Game** [**http://pbskids.org/cyberchase/games/area/tangram.html**](http://pbskids.org/cyberchase/games/area/tangram.html) |  | Tangrams  Separating Shapes  Tangrams and Visualization |
|  | **Tessellations- Regular and Irregular Shapes**   * Drawing Escher type tessellations <http://staff.orcsd.org/shared/ms-dolphins/Tessellation%20Project%20Directions.pdf> * Tesselate <http://www.shodor.org/interactivate/activities/Tessellate/> * Pattern Blocks can also be used to tessellate. Try using more than piece to form a tessellation. |  |  |
|  | **Homework**: Throughout the week, find 5 different examples of tessellations.  **Reflection Journal**  **Reading :** Beckmann pp448-449 |  |  |
|  |  |  |  |